Descriptions of GIS Mine Polygons Used in the Cumulative Impact Study

West Virginia

Original Source Description

The source of the GIS mine polygons for West Virginia used in this cumulative impact study is the a digital geographic database of coal mining permit boundaries, coal extraction polygons, and fill polygons produced by the West Virginia Division of Mining and Reclamation – Information Technology Office. These datasets are derived from hardcopy permit maps submitted to DMR. Hardcopy maps were scanned and georeferenced prior to extraction of features via on-screen digitizing by West Virginia University - Natural Resource Analysis Center. All datasets have been projected to UTM zone 17, NAD27.

Description of Digital Data Base Queried for the Cumulative Impact Study

Staff from OSM's Pittsburgh Office downloaded the most current digital database from West Virginia mining permits from West Virginia Department of Environmental Protection website: http://129.71.240.42/data/omr.html. Three GIS data layers -- permit boundaries, surface mine extraction areas, and valley fill areas – met the criteria established by the EIS Steering Committee for the cumulative impact study. This data set was filtered by using the last two digits of the permit identification number (the year the permit identification number was assigned) to include only those activities associated with new surface mining permitted after January 1, 1992. Further, using the boundaries of the EIS study area in West Virginia, a GIS specialist at OSM Pittsburgh Office used readily available querying tools in ESRI ARCVIEW software to select only those surface mining permits that were located wholly or partly within the EIS study area.

Below is a list of 142 West Virginia mining permits forwarded for inclusion in the cumulative impact study.

PERMIT_ID	PERMIT_ID	PERMIT_ID
s051799	s302693	s501592
s500997	s502197	s501400
s500999	s302193	s501494
s200995	s502097	s301496
s500593	s502095	s301492
s400597	s402095	s201496
s200599	s502393	s501796
s300599	s502399	s501798
s400401	s502297	s301794
s400497	s302299	s501694
s300495	s503595	s501194

s200499
s300499
s100495
s300795
s400699
s200697
s400199
s300195
s200197
s300199
s500395
s400399
s400397
s300295
s501895
s501899
s501597
s401595
s201593
s301599
s401499
s301693
s401197
s501095
s501395
s401395
s301393
s501297
s501299
s201293
s301299
s502997
s502995
s502597
s502495
s502493
s502797
s502799
s303593
s303793
s503195
s503097
s503095
s503395
s503295
s357600
s500900
s400998
s200896
s100896
s500596
s400596
s300598
s300400
s200494
s500700
s300796
s200798
s400600
s400698
s300696
s400198
s400300
s500396
s500394
s500398
s200396
s100394
s400200
s100200
s300296
s200294
s501900
s501998
s401500
s501596
s501092
s401096
s201092
s501300
s501396
s401396
s301396
s201398
s401298
s201298
s402596
s502598
s502496
s302794
s502698
s102192
s402096
s302300
s402396
s502296
s503996
s503792
s403192
s503096
s503392
s504692
s505592
s505792
s506692
s507492
s501594